

1/29

FIG. 1 PRIOR ART

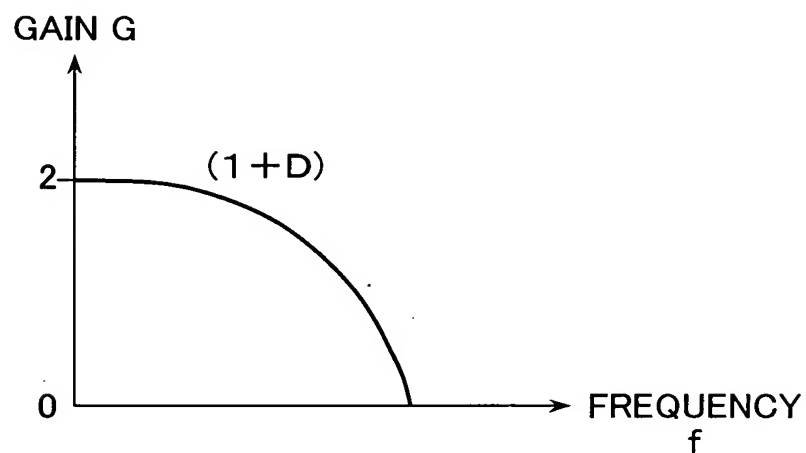
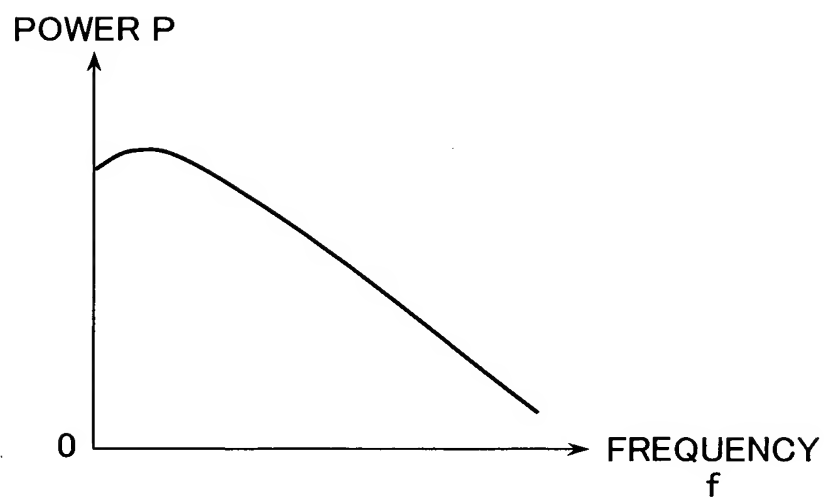


FIG. 2 PRIOR ART



2/29

FIG. 3 PRIOR ART

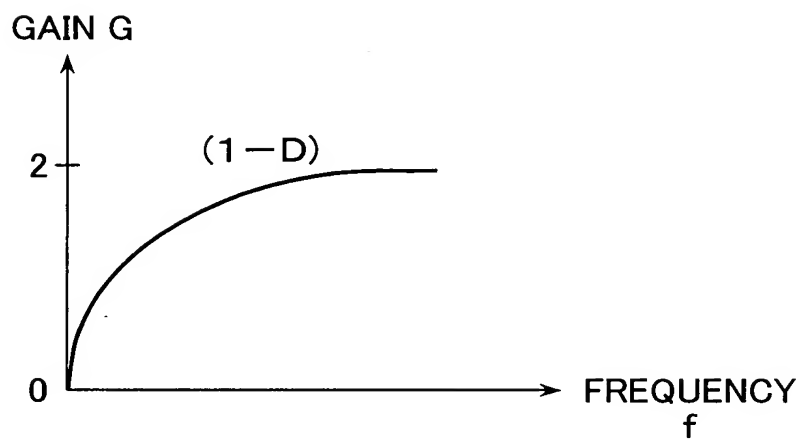
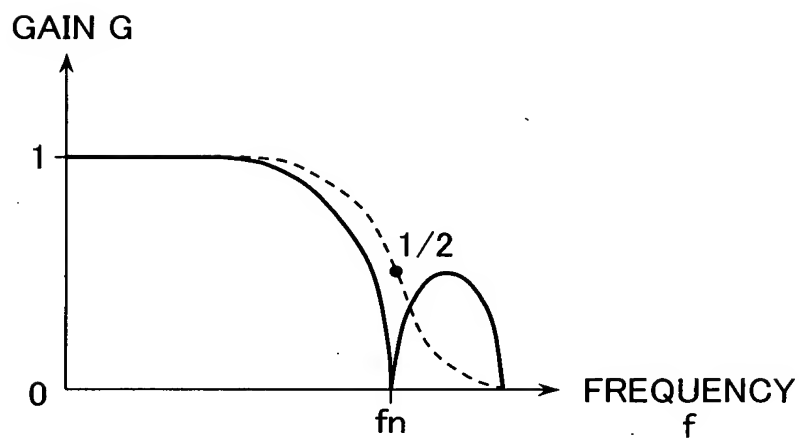


FIG. 4 PRIOR ART



3/29

FIG. 5

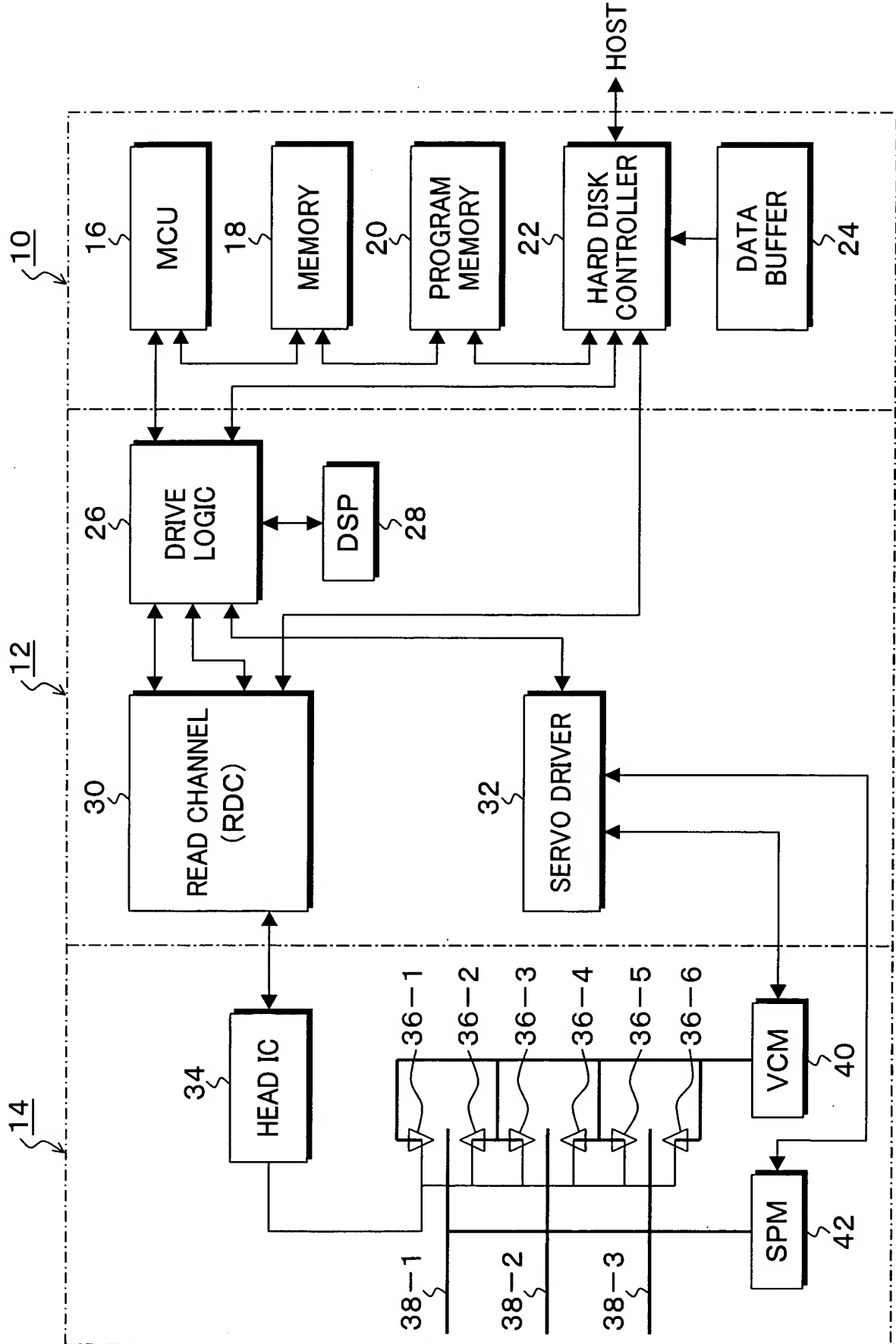
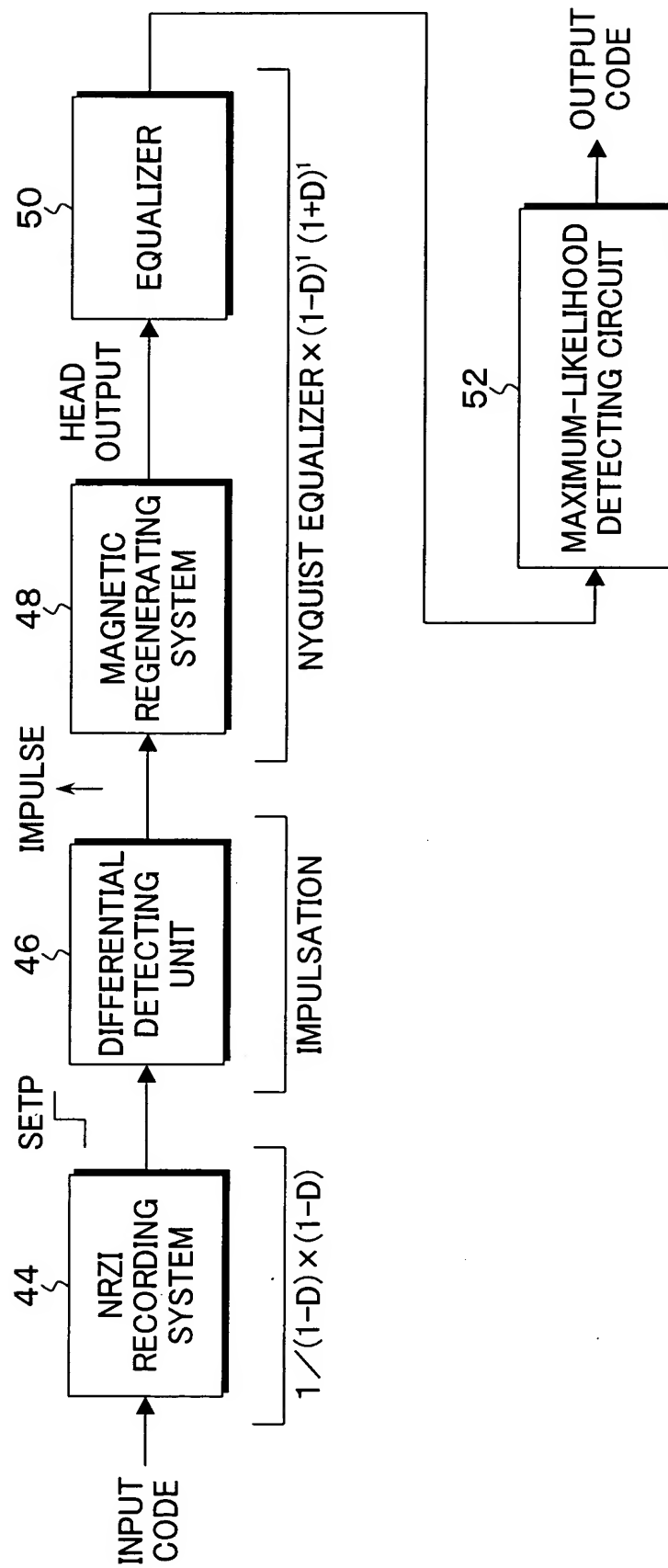


FIG. 6



5/29

FIG. 7

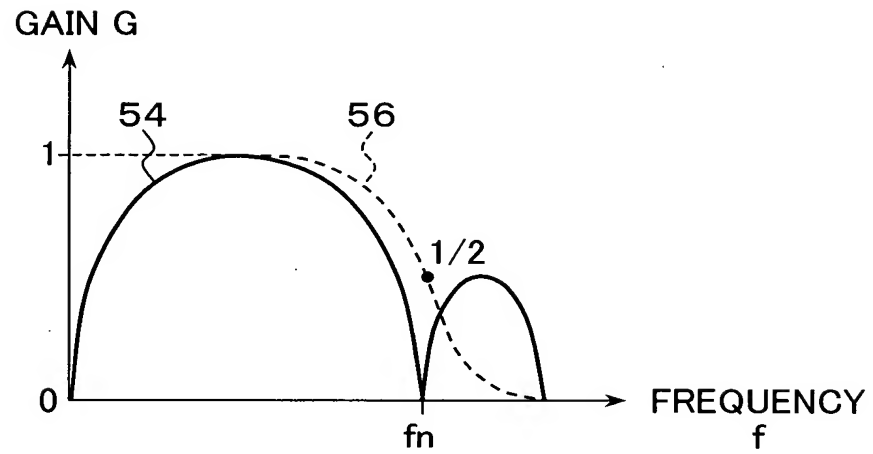
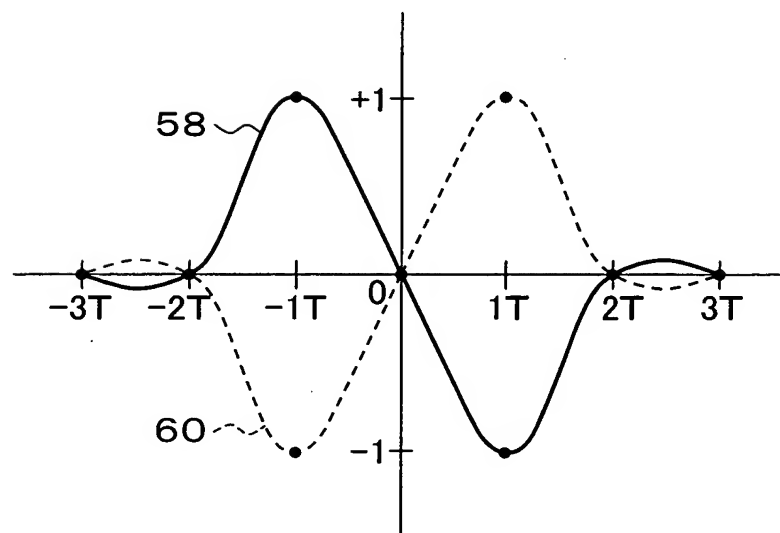
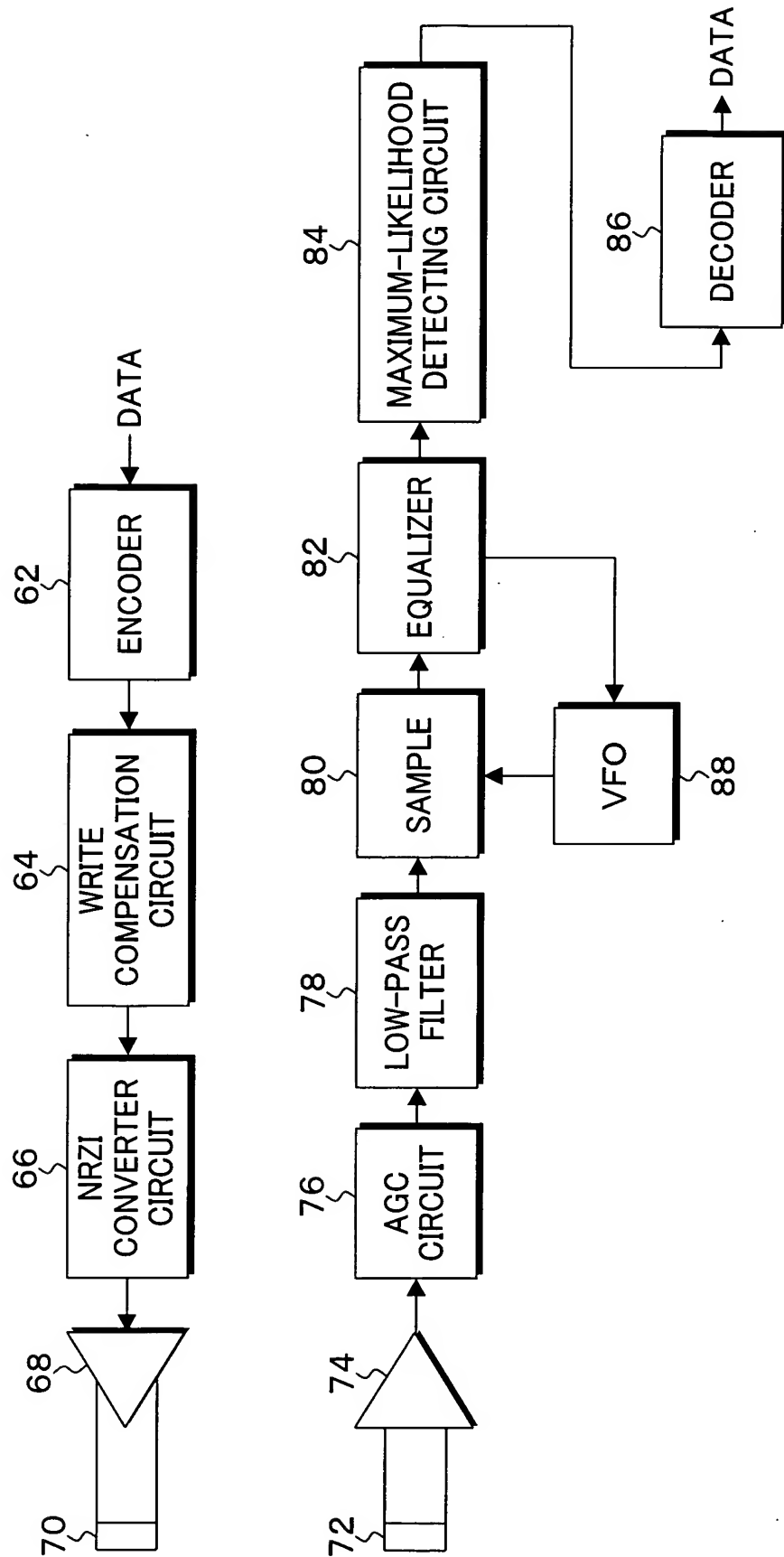


FIG. 8



6/29

FIG. 9



7/29

FIG. 10

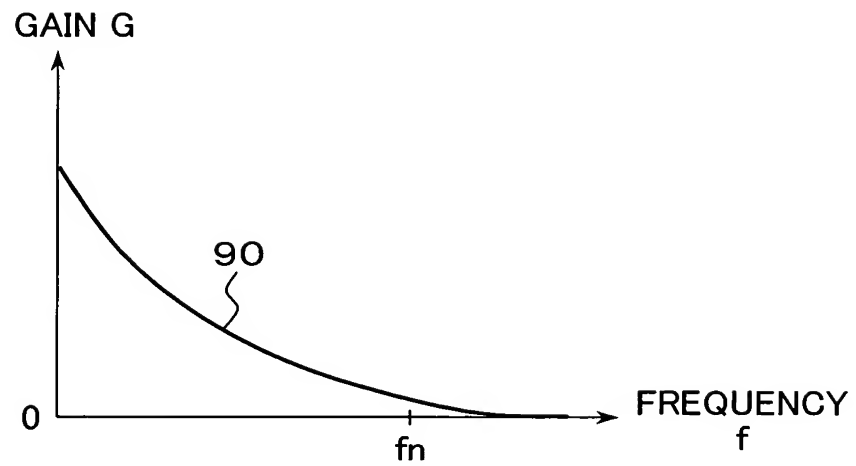
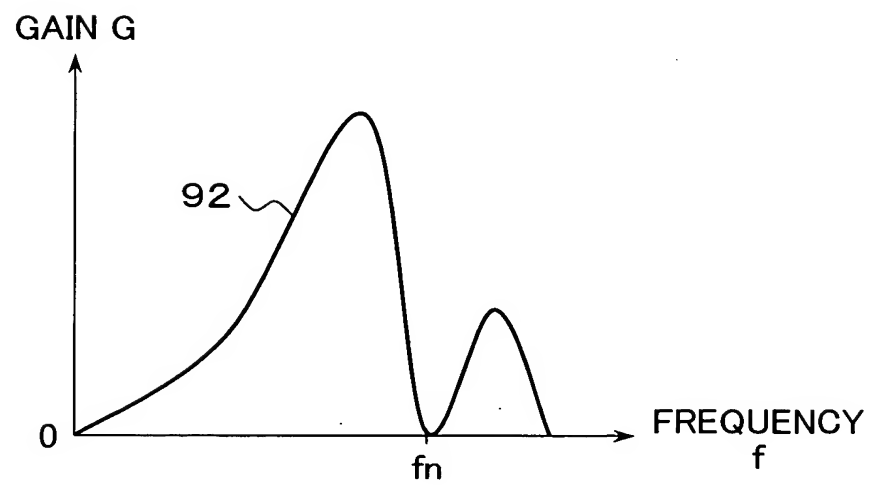
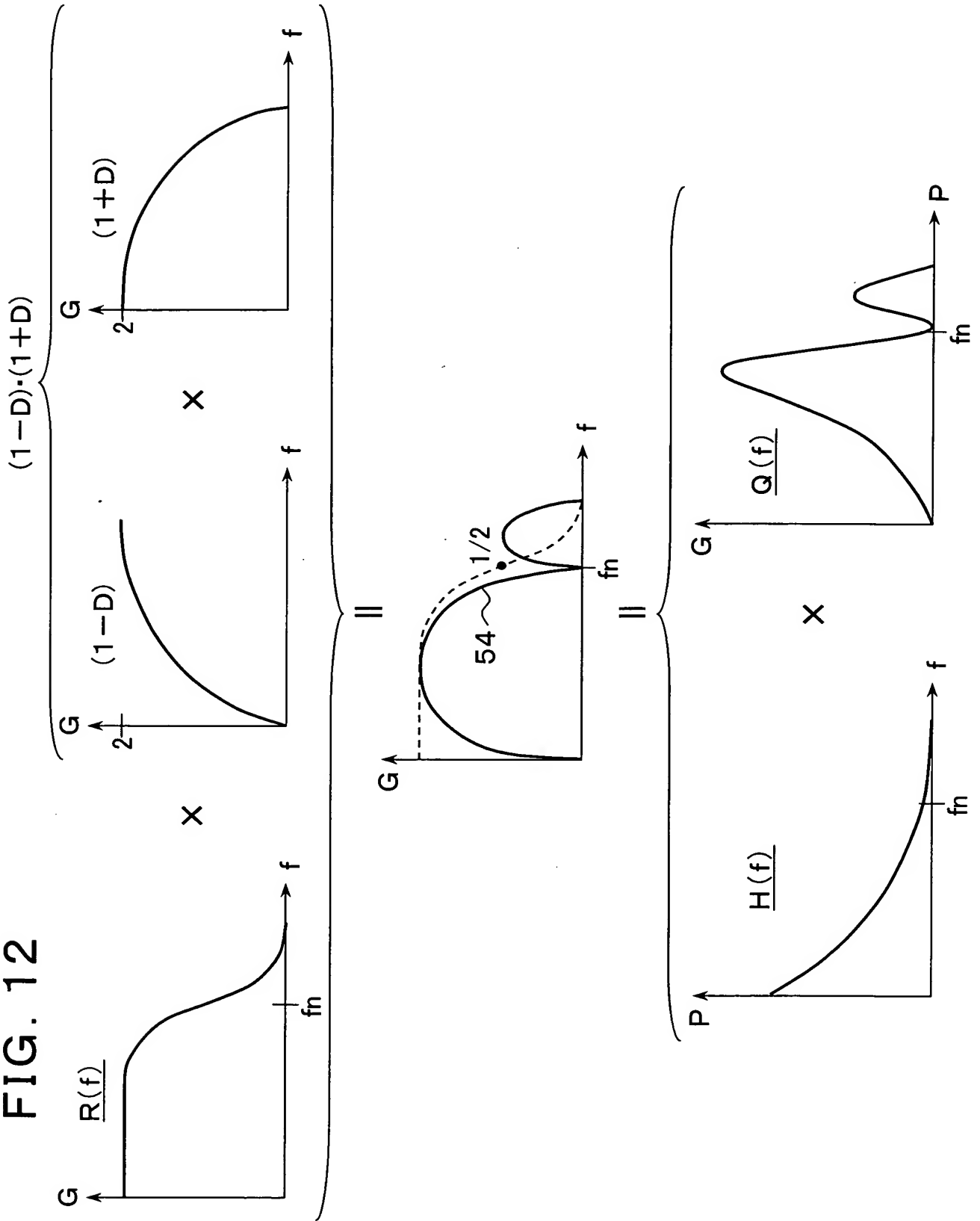


FIG. 11



8/29

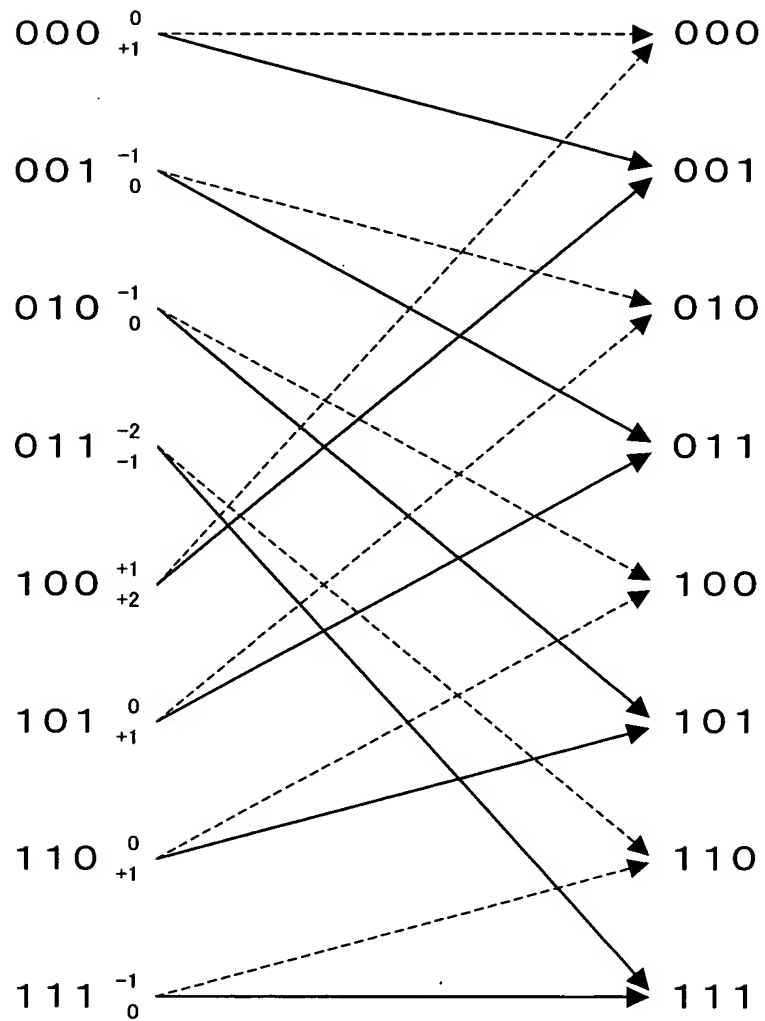
FIG. 12





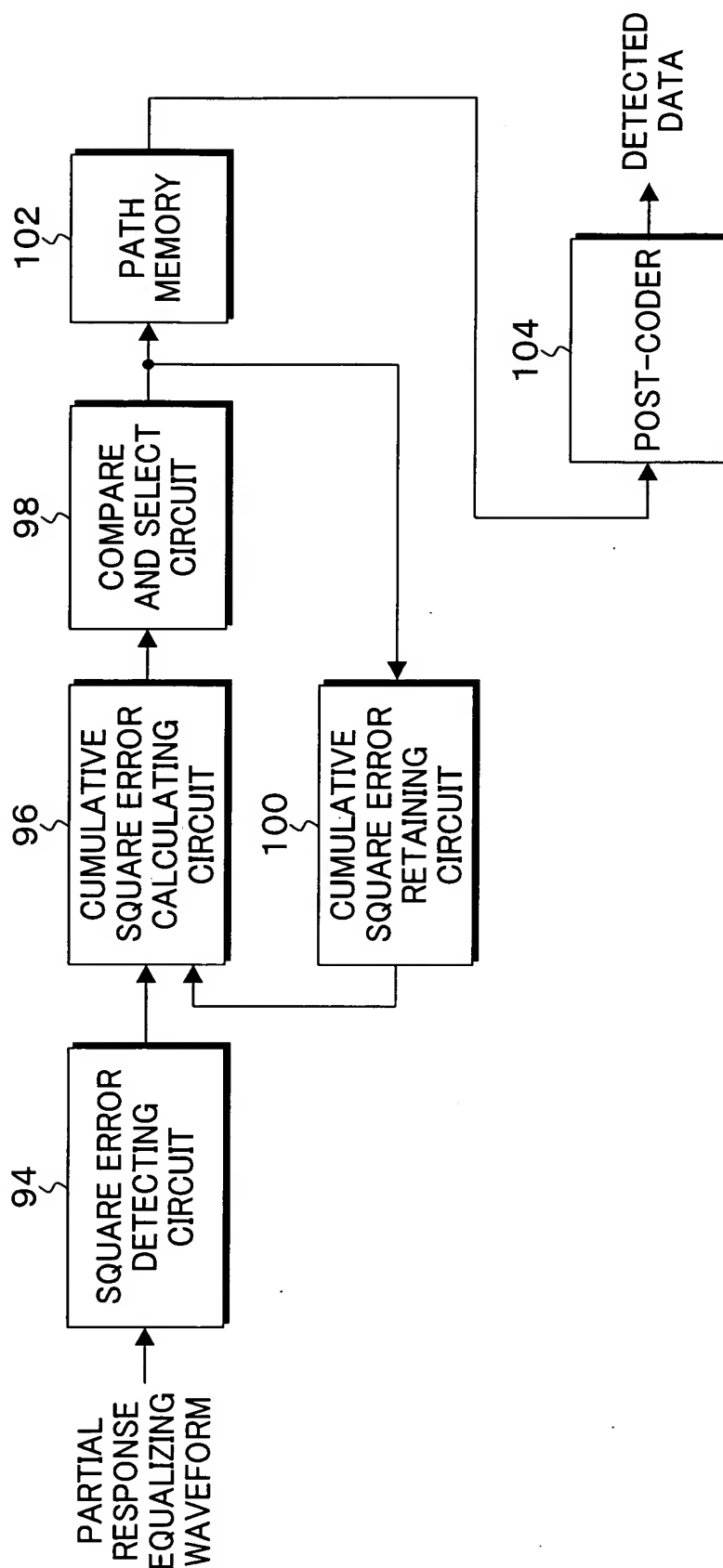
9/29

FIG. 13

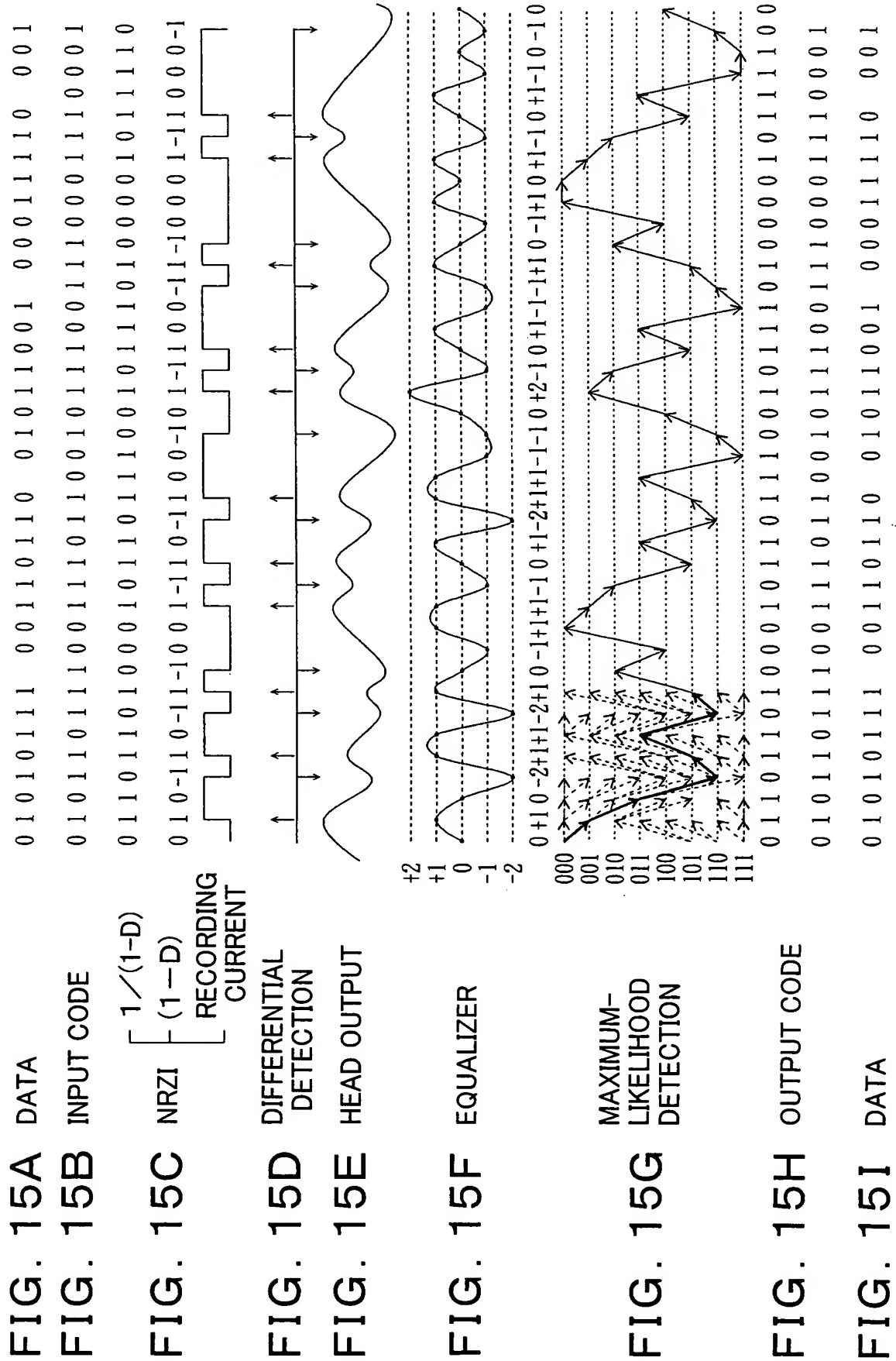


10/29

FIG. 14

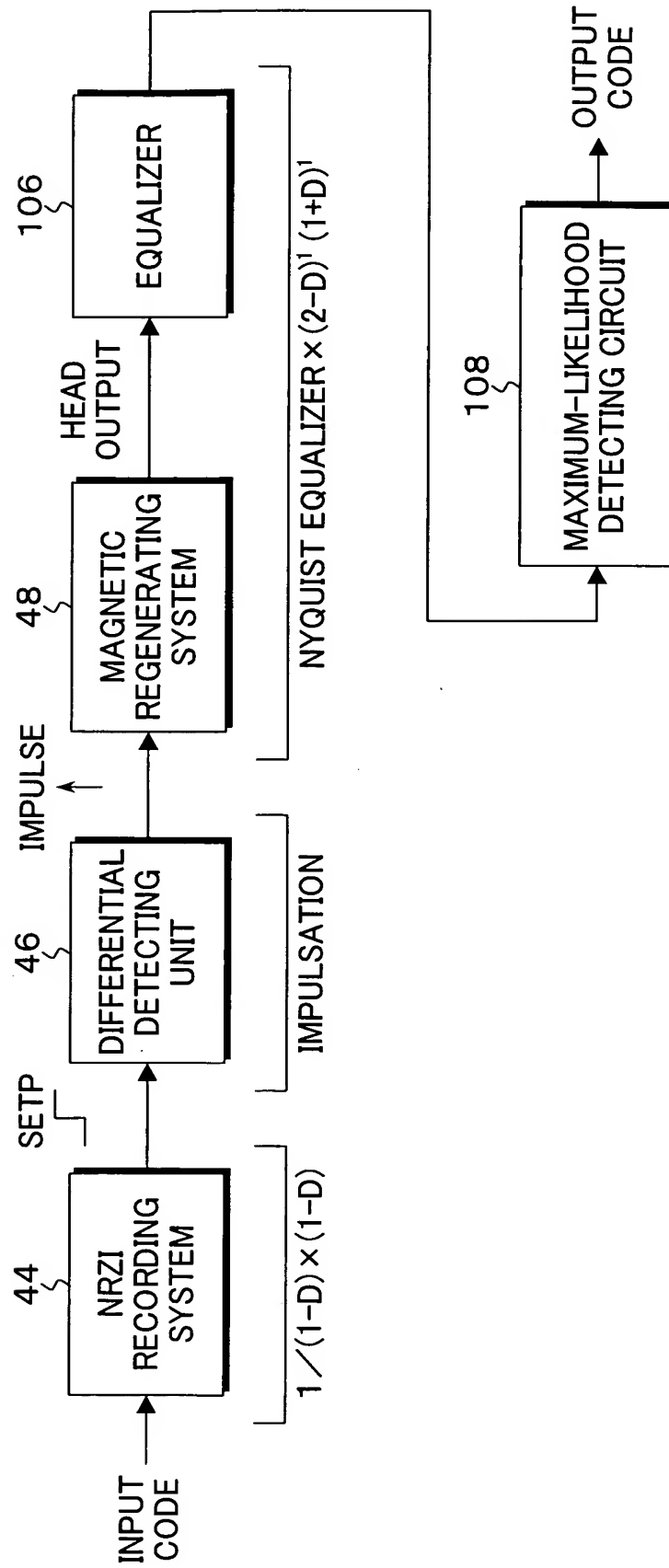


11/29



12/29

FIG. 16



13/29

FIG. 17

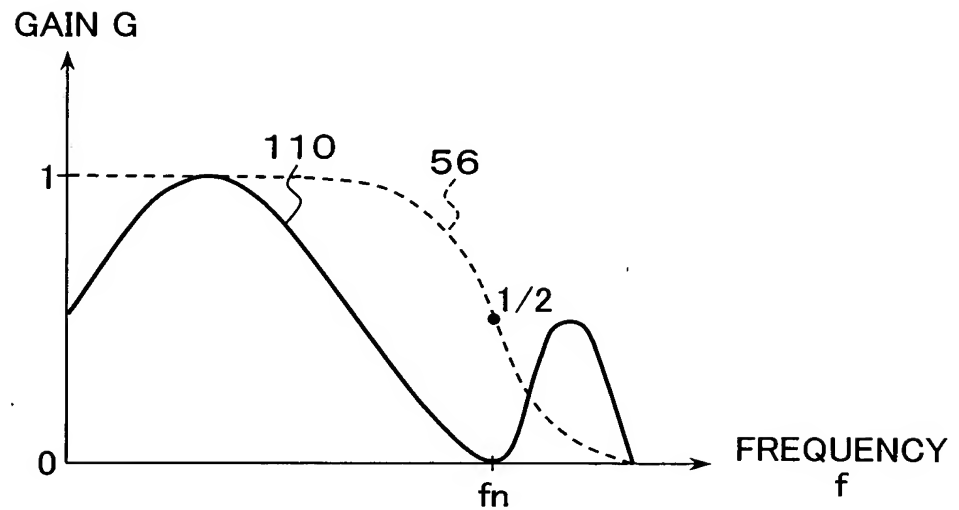
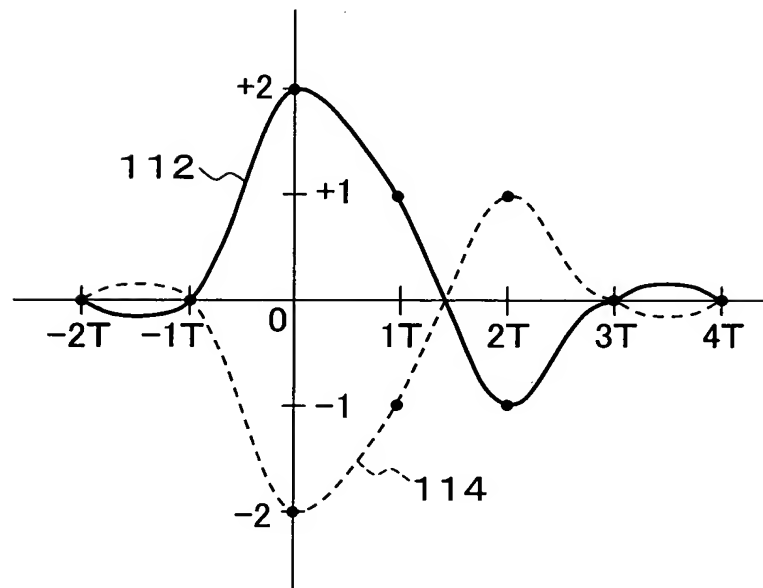
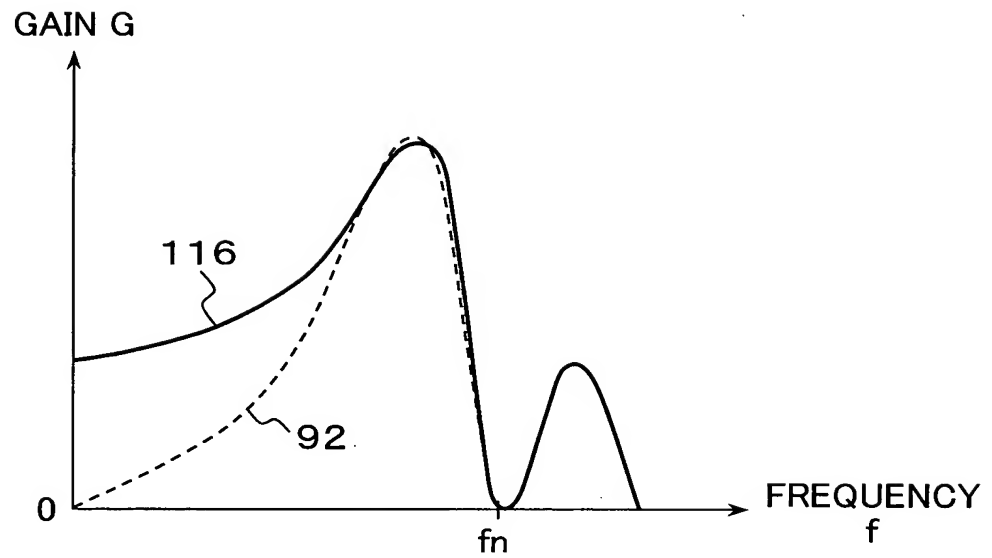


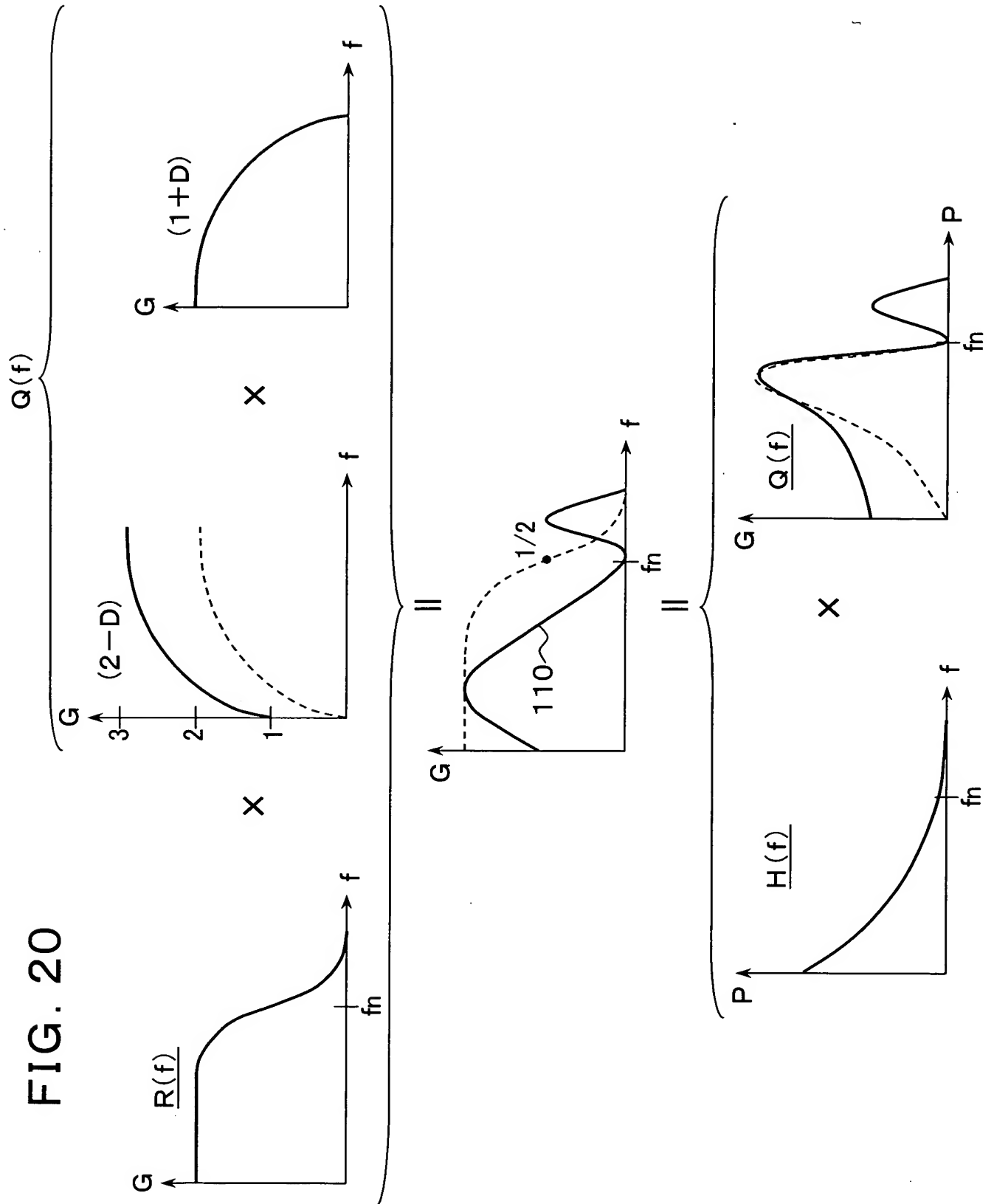
FIG. 18



14/29

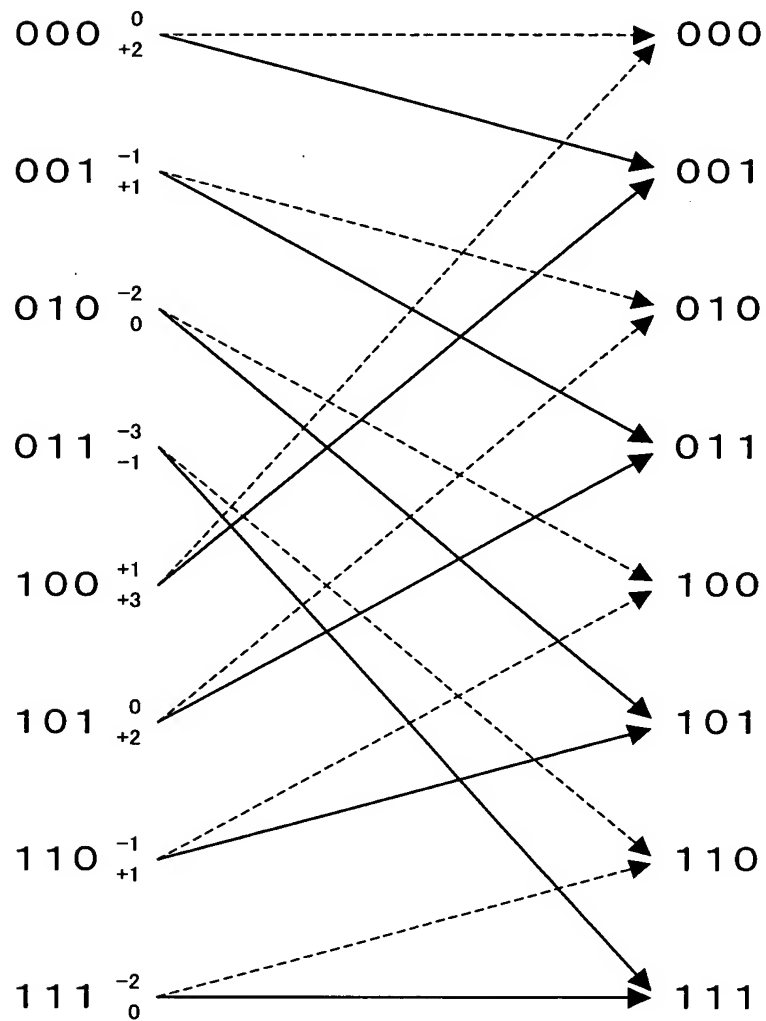
FIG. 19





16/29

FIG. 21





17/29

FIG. 22A DATA

01010111 00110110 01011001 00011110 001

FIG. 22B INPUT CODE

0101101110011101100101110001110001110001

FIG. 22C NRZI  $\left[ \begin{array}{l} 1/(1-D) \\ (1-D) \end{array} \right]$  RECORDING CURRENT

011011010001011011100101110100001011110

FIG. 22D DIFFERENTIAL DETECTION

010-110-11001-110-1100-101-1100-11-10001-11000-1

FIG. 22E HEAD OUTPUT

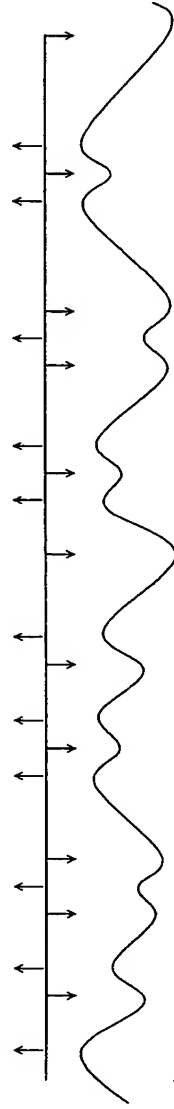


FIG. 22F EQUALIZER

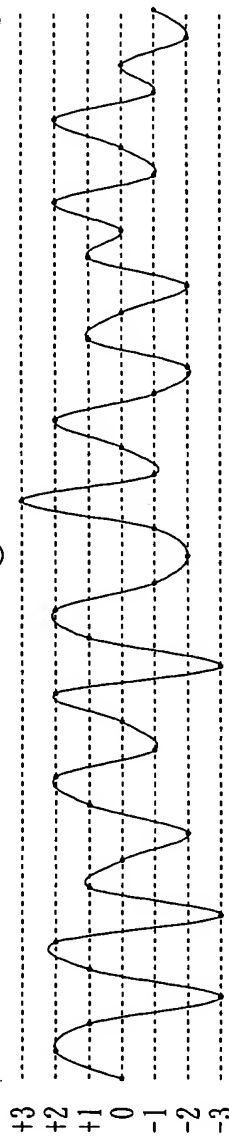


FIG. 22G MAXIMUM- LIKELIHOOD DETECTION

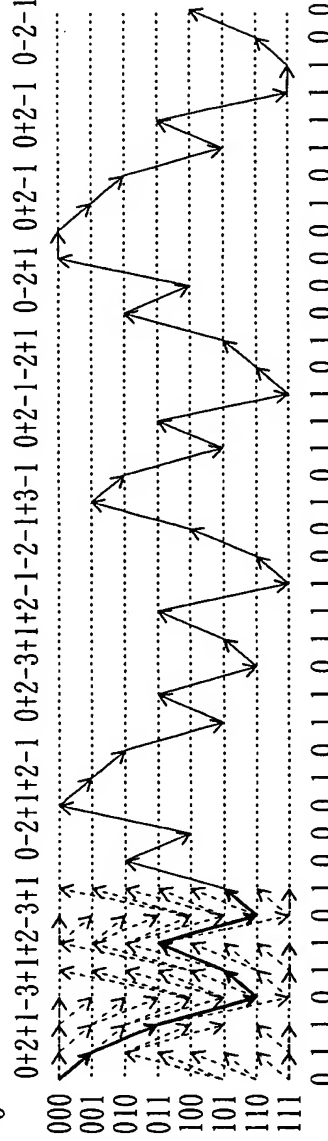


FIG. 22H OUTPUT CODE

0110110100010110111001011101000010111100

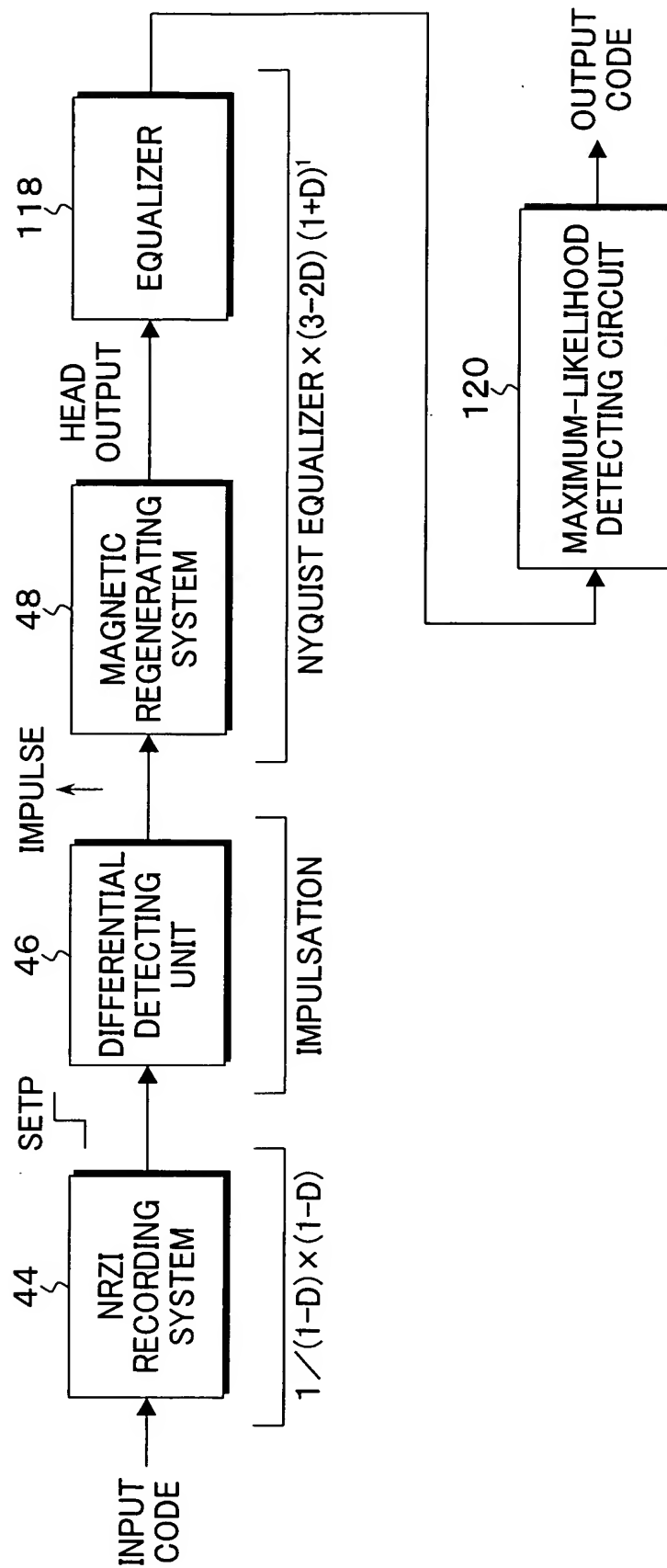
FIG. 22I DATA

010110111001110110010111001110001110001

01010111 00110110 01011001 00011110 001

18/29

FIG. 23



19/29

FIG. 24

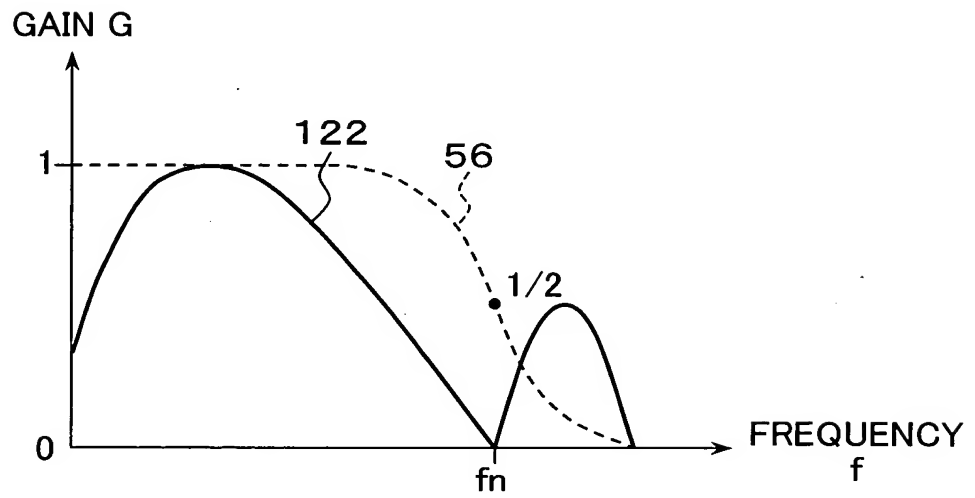
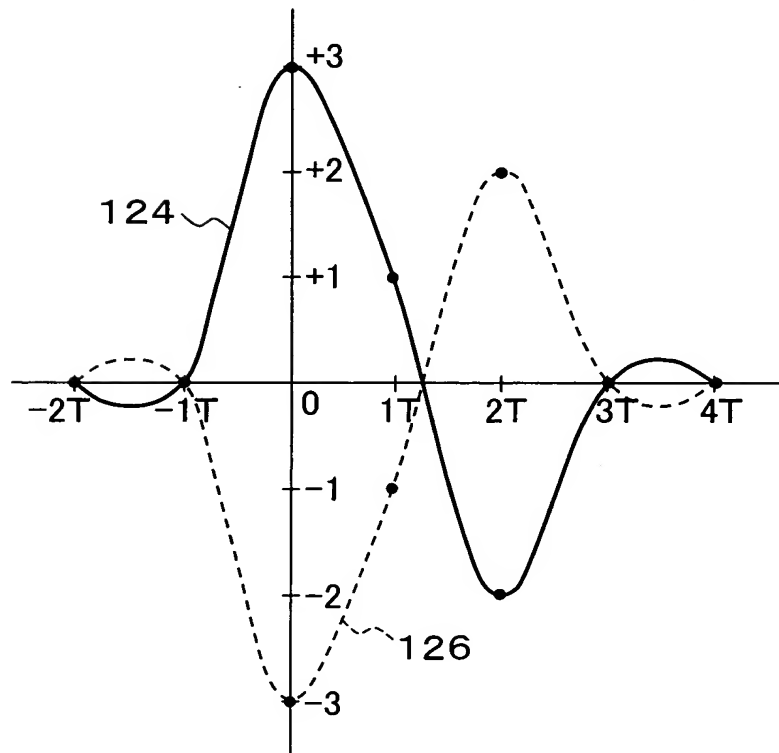


FIG. 25



20/29

FIG. 26

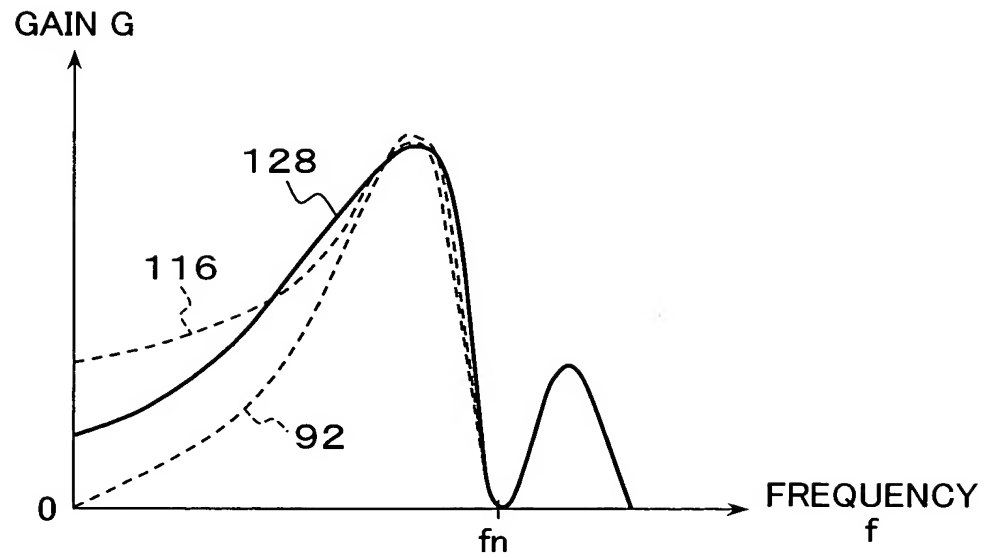
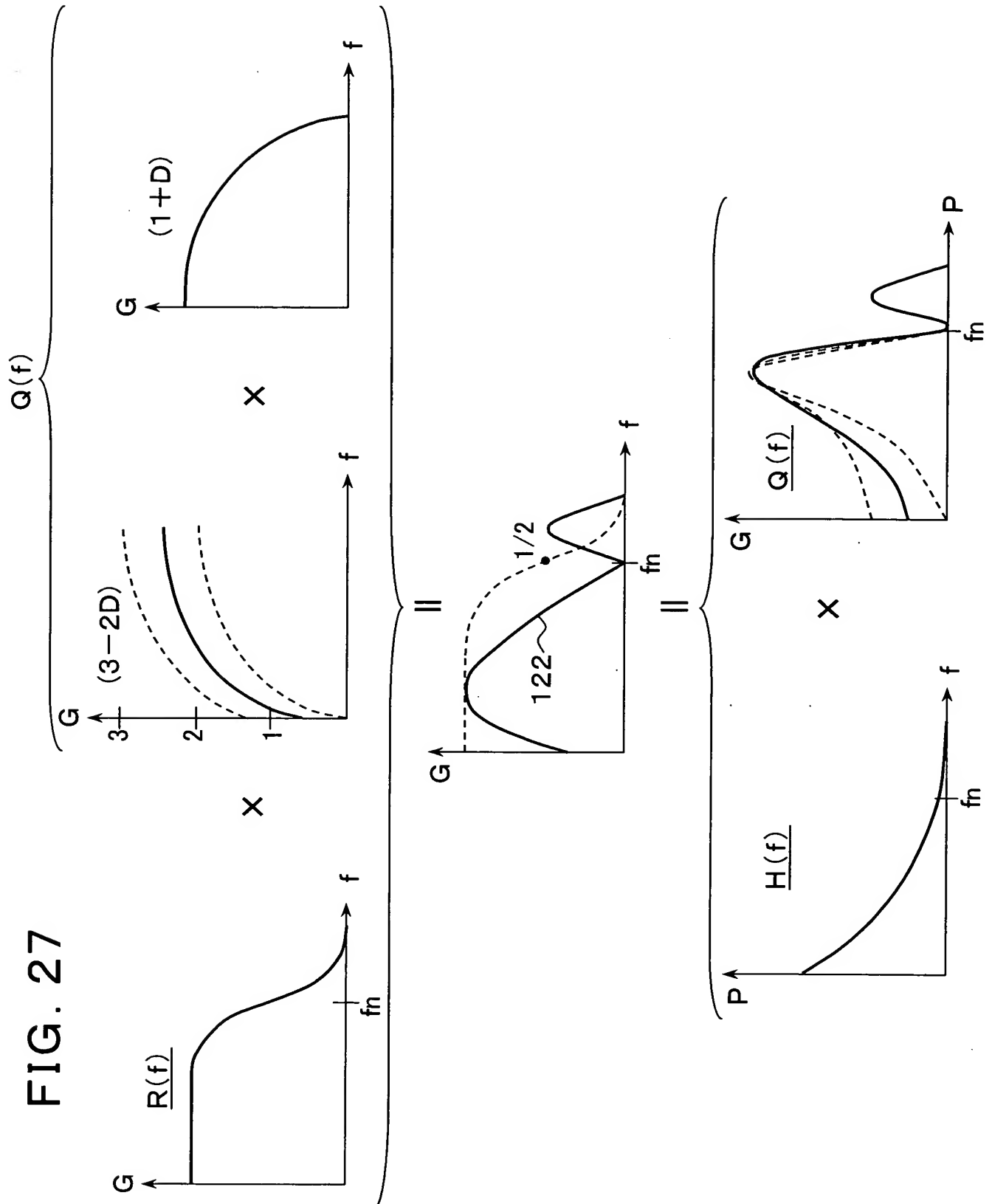
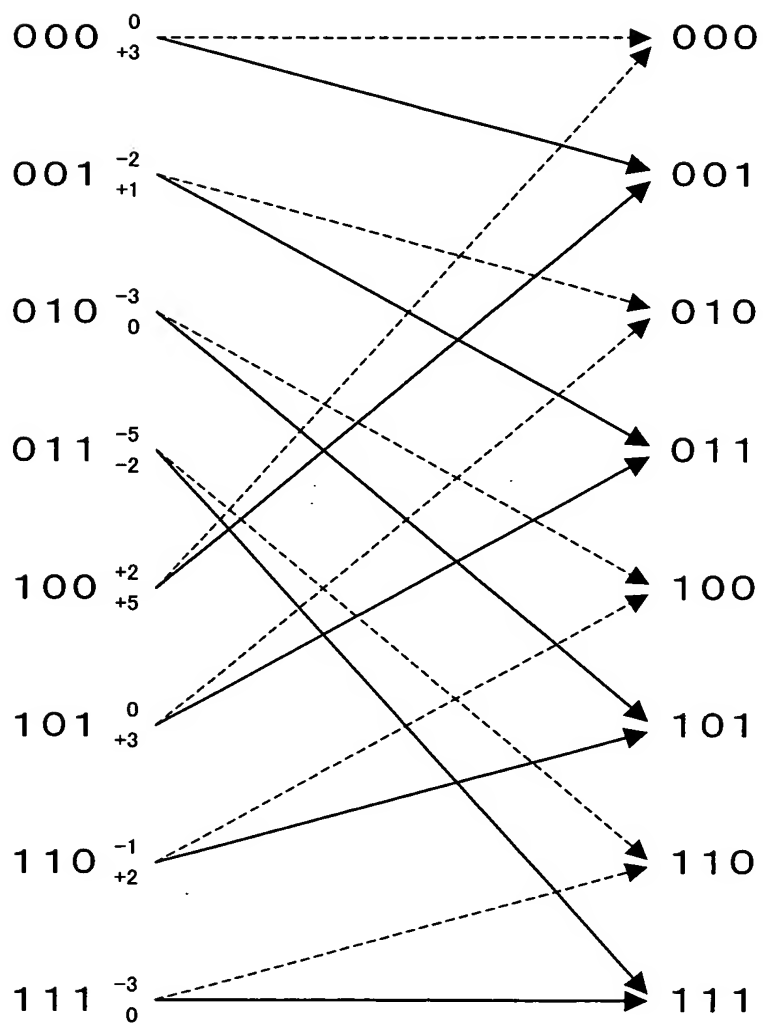


FIG. 27



22/29

FIG. 28



23/29

FIG. 29A DATA

01010111 00110110 01011001 00011110 001

FIG. 29B INPUT CODE

010110111001110110010111001110001110001

FIG. 29C NRZI  $\left[ \begin{array}{l} 1/(1-D) \\ (1-D) \end{array} \right]$  RECORDING CURRENT

011011010001011011100101110100001011110  
010-110-11-1001-110-1100-101-1100-11-1000-1

FIG. 29D DIFFERENTIAL DETECTION

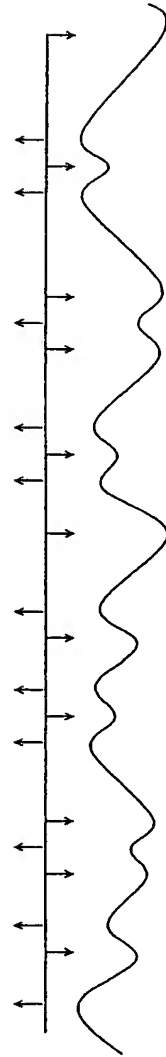


FIG. 29E HEAD OUTPUT

+5  
+4  
+3  
+2  
+1  
0  
-1  
-2  
-3  
-4  
-5

FIG. 29F EQUALIZER

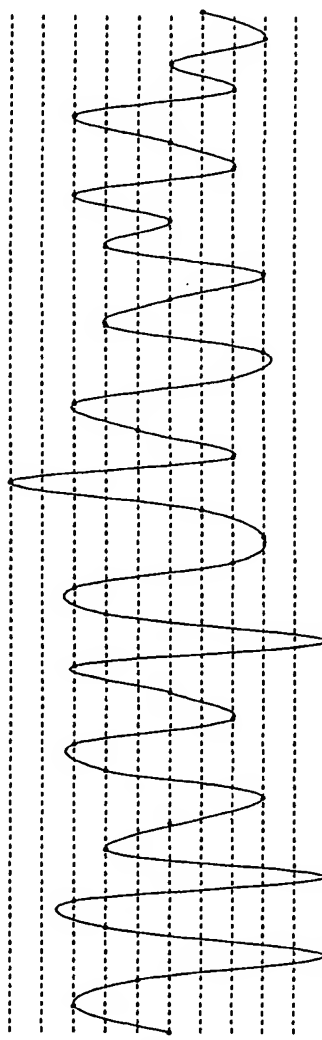


FIG. 29G MAXIMUM- LIKELIHOOD DETECTION

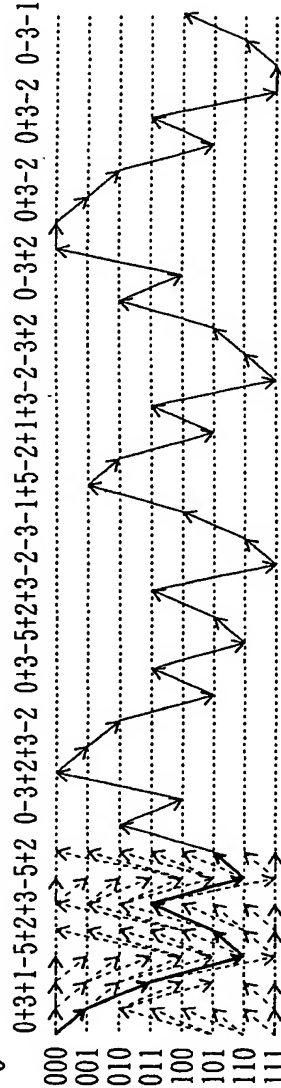


FIG. 29H OUTPUT CODE

0110110100010110111001011101000010111100

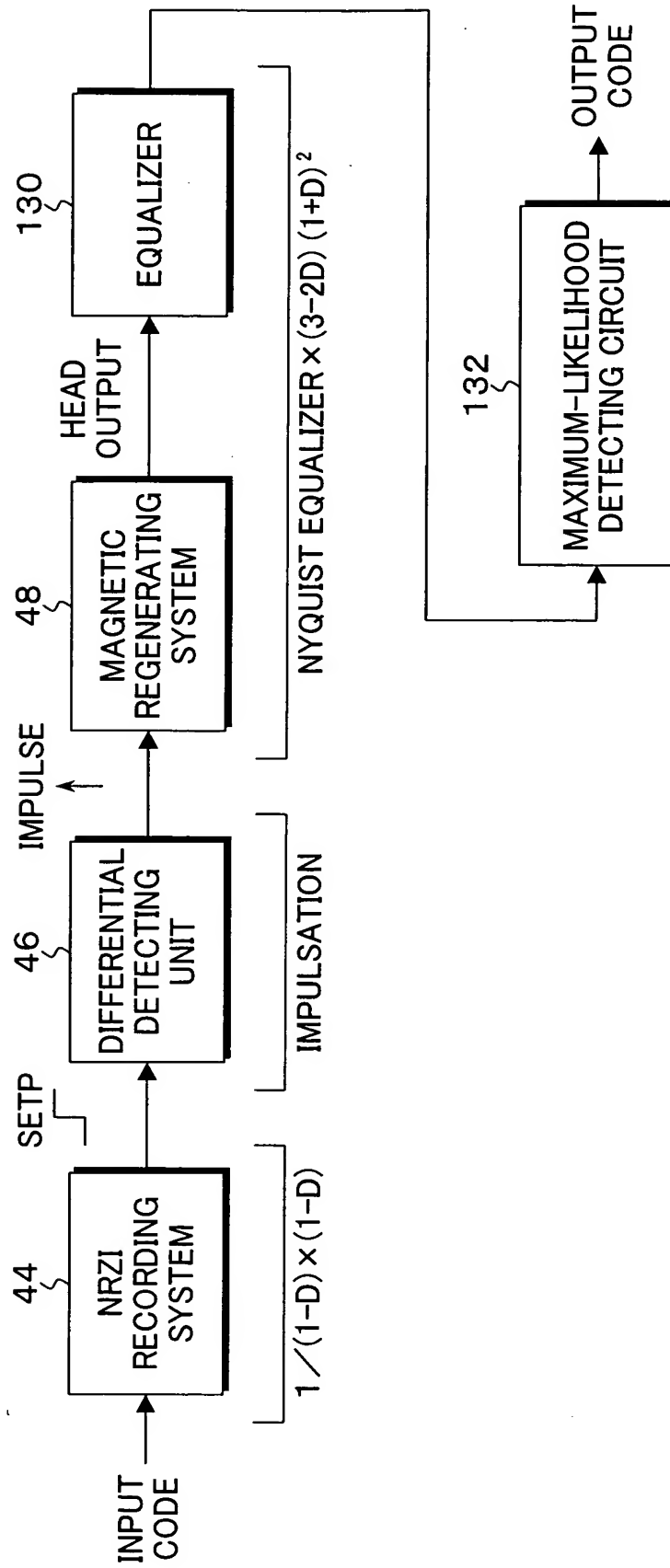
FIG. 29I DATA

010110111001110110010111001110001110001

01010111 00110110 01011001 00011110 001

24/29

FIG. 30





25/29

FIG. 31

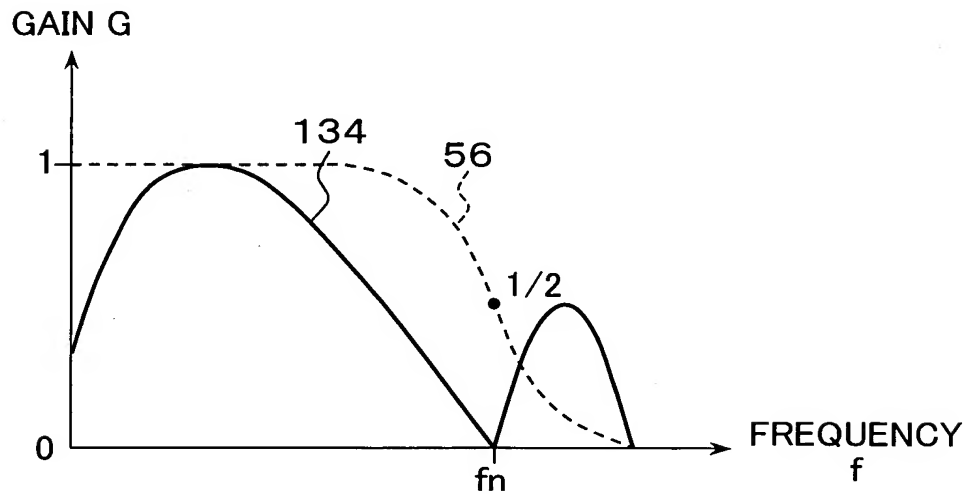
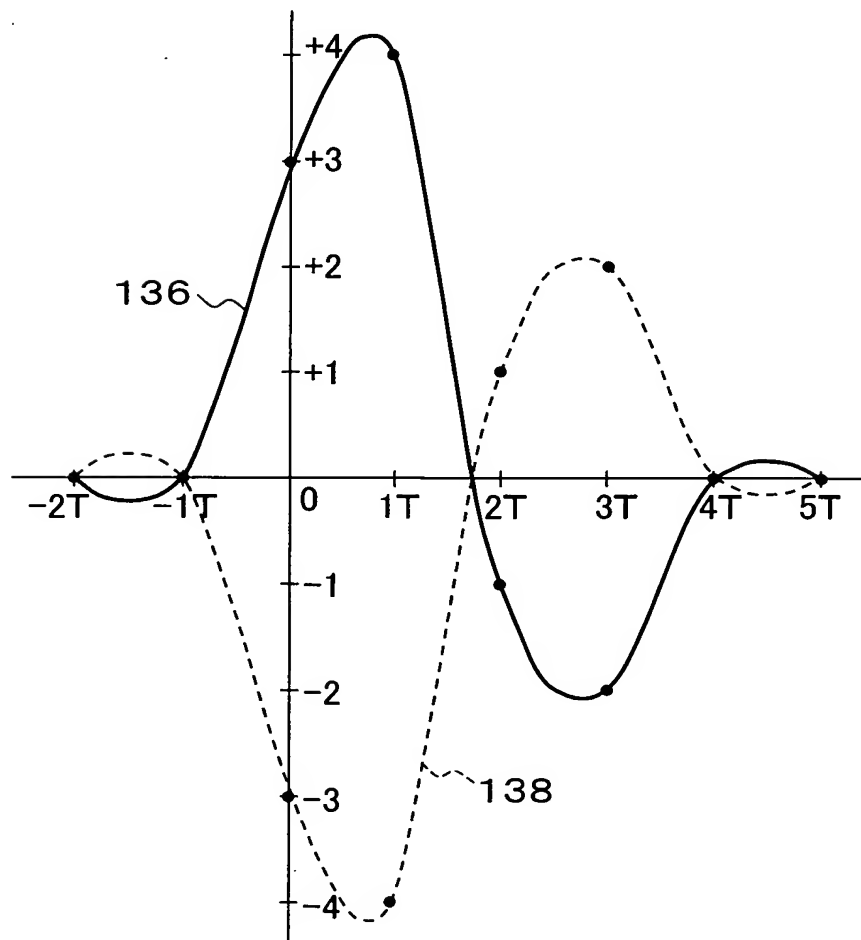
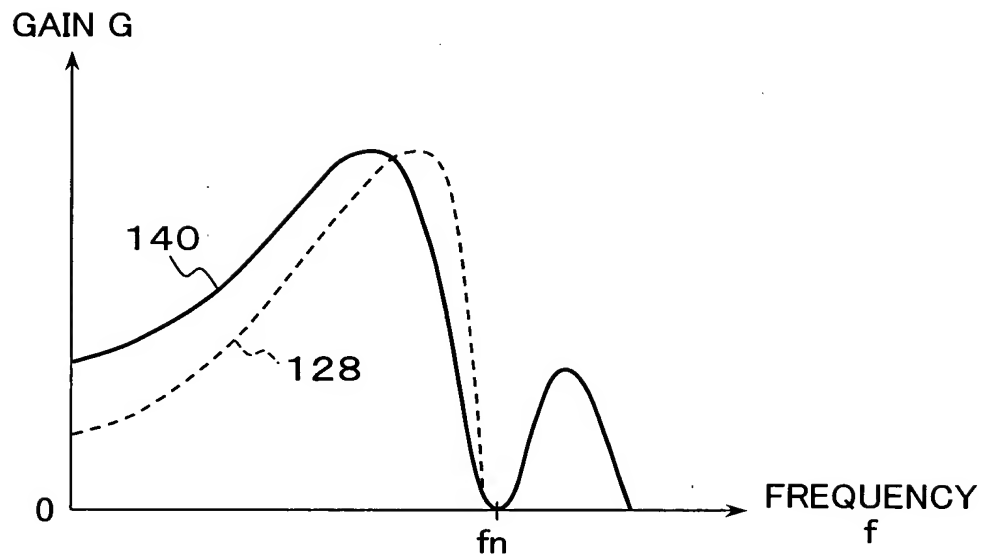


FIG. 32



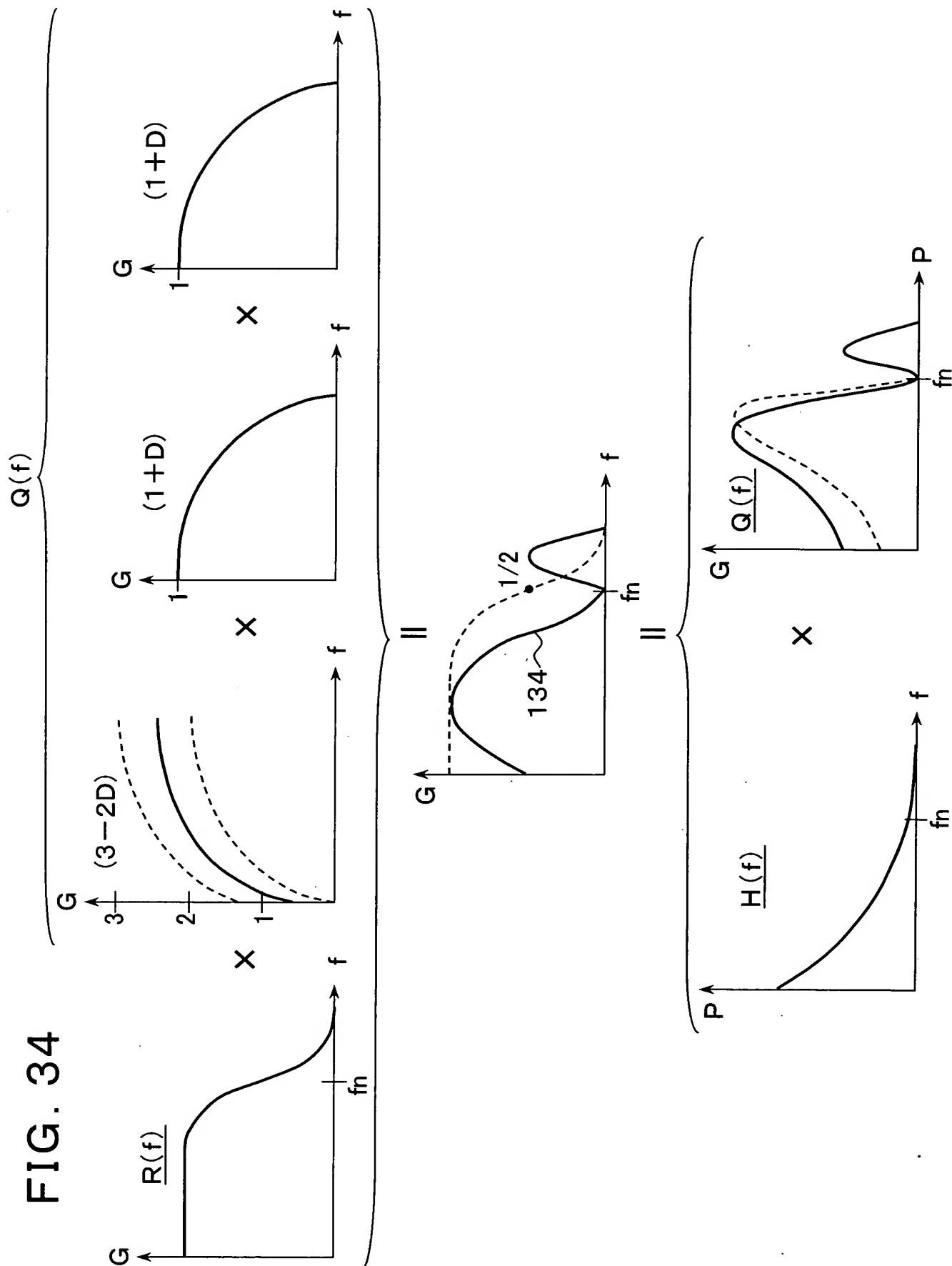
26/29

FIG. 33



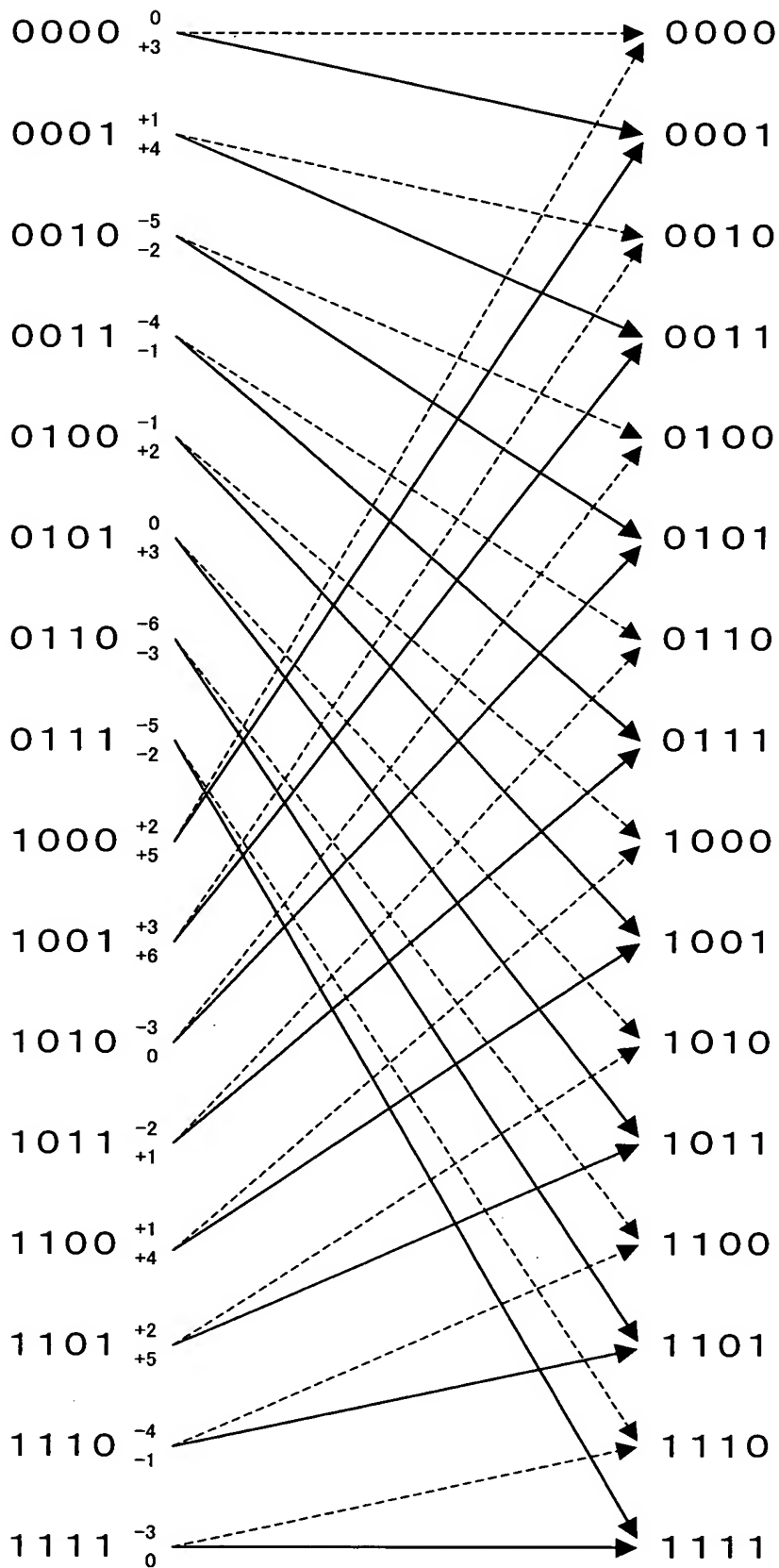
27/29

FIG. 34



28/29

FIG. 35



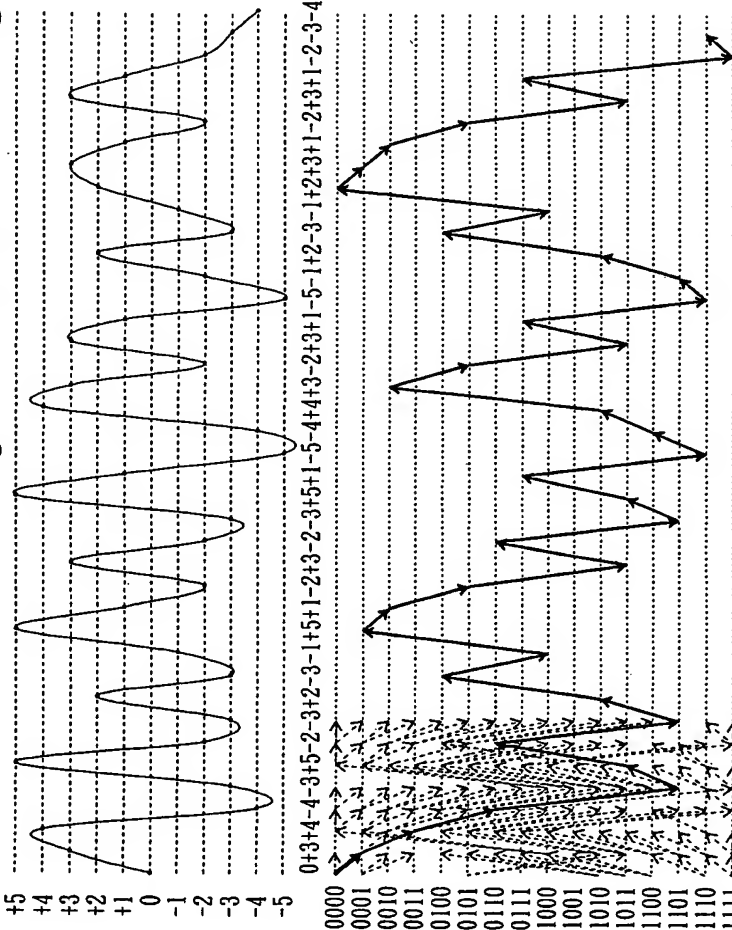
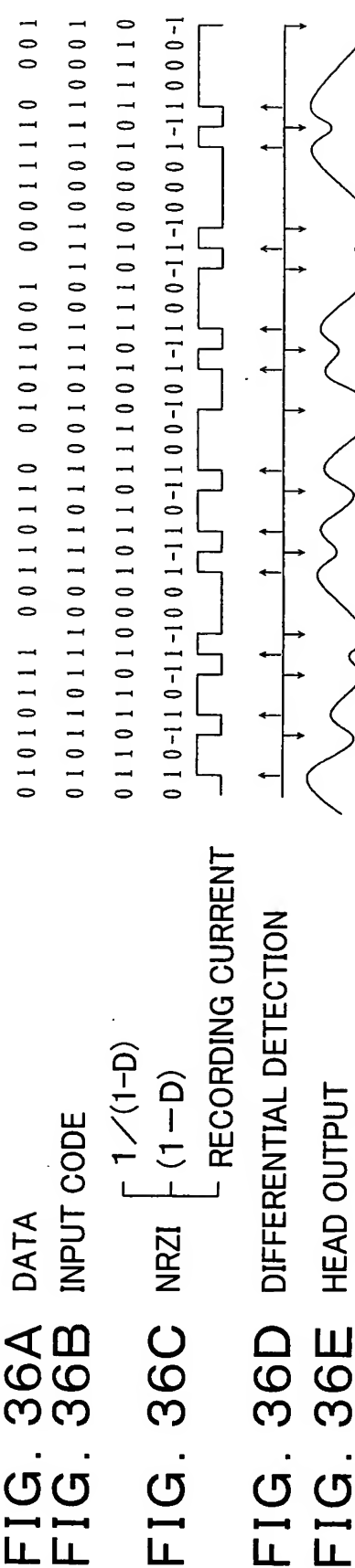


FIG. 36G  
MAXIMUM-LIKELIHOOD  
DETECTION

